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4, 7TH MAIN MALLESWARAM, BANGALORE -3

CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Date: 29-12-17

Lab ID : **CP-2017-12-25-01**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Venkatala Janatha colony in ward No.01

Agency : Sri.Rajanna.N, No:54/1 Venkatala, Yelahanka, Banglore-64.

Customer's Reference : EE(YNK.D)E-PMT-12/W.O/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-12-17

Sample ID No : 2017-12-25-01/02

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 25/12/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.52	100.52	1.985	4478	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.51	100.5	1.588	4477	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.52	100.49	1.762	4478	81.5	18.2	16.9	21.2

Note:

The results pertain to the samples received and tested.

All information furnished by the Customer/Representative

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Date: 29-12-17

Lab ID : CP-2017-12-25-01

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Venkatala Janatha colony in ward No.01

Agency : Sri.Rajanna.N, No:54/1 Venkatala, Yelahanka, Banglore-64.

Customer's Reference : EE(YNK.D)E-PMT-12/W.O/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-12-17

Sample ID No : 2017-12-25-01/02

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 25/12/2017

SL No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.52	100.52	1.985	4478	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.51	100.5	1.588	4477	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.52	100.49	1.762	4478	81.5	18.2	16.9	21.2

Note:

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Certificate No.: TC-5548

CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 23-12-17

Lab ID	:	CP-2017-12-21-01
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Venkatala Janatha colony in ward No.01
Agency	:	Sri.Rajanna.N, No:54/1 Venkatala, Yelahanka, Banglore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-12/W.O/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-17
Sample ID No	:	2017-12-21-01/01
Sample Type	:	Dalmia 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	22-12-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.94	–
2	Finess by Air permeablity method (m^2/kg, Min)	289.6	225m^2/kg, Min
3	Density (gm/cc)	3.17	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-12-21-01** **Date: 25-12-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Venkatala Janatha colony in ward No.01
Agency	:	Sri.Rajanna.N, No:54/1 Venkatala, Yelahanka, Banglore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-12/W.O/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	21-12-17
Sample ID No	:	2017-12-21-01/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-12-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	374	374	2.5	97.5	90-100
3	20 mm	5728	6102	40.7	59.3	30-70
4	10 mm	4773	10875	72.5	27.5	10-35
5	4.75 mm	3464	14339	95.6	4.4	0-5
6	Pan	661	15000	100.0	0	---

CIVIL PRO BANGALORE Sig..... Date.....

TEST REPORT ON COARSE AGGREGATES

Date: 25-12-17

: CP-2017-12-21-01

: 2017-12-21-01/02(a)

le ID No

SICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.2	–

Note:
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Authorized Signatory
Quality Manager

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CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-12-21-01** **Date: 25-12-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Venkatala Janatha colony in ward No.01
Agency	:	Sri.Rajanna.N, No:54/1 Venkatala, Yelahanka, Banglore-64.
Customer Reference	:	EE(YNK.D)E-PMT-12/W.O/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-17
Sample ID No	:	2017-12-21-01/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-12-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	386	386	7.7	92.3	90-100
3	10 mm	2739	3125	62.5	37.5	25-55
4	4.75 mm	1678	4803	96.1	3.9	0-10
5	Pan	197	5000	100	0	–

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CIVIL PRO BANGALORE Sig..... Date.....

CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-12-21-01 **Date: 25-12-17**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Venkatala Janatha colony in ward No.01

Agency : Sri.Rajanna.N, No:54/1 Venkatala, Yelahanka, Banglore-64.

Customer's Reference : EE(YNK.D)E-PMT-12/W.O/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-12-17

Sample ID No : 2017-12-21-01/03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 21-12-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	48	48	4.8	95.2	90-100	90-100	90-100	95-100
3	2.36 mm	184	232	23.2	76.8	60-95	75-100	85-100	95-100
4	1.18 mm	208	440	44.0	56.0	30-70	55-90	75-100	90-100
5	600 micron	168	608	60.8	39.2	15-34	35-59	60-79	80-100
6	300 micron	217	825	82.5	17.5	5-20	8-30	12-40	15-50
7	150 micron	109	934	93.4	6.6	0-10	0-10	0-10	0-15
8	Pan	66	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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Certificate No.: TC-5548

CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-12-30-02** **Date: 04/01/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Venkatala Janatha colony in ward No.01

Agency : Sri.Rajanna.N, No:54/1 Venkatala, Yelahanka, Banglore-64.

Customer's Reference : EE(YNK.D)E-PMT-12/W.O/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-12-17

Sample ID No : 2017-12-30-02/01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	28/12/2017	04/01/2018	150.15 X 150.22 X 150.21	22556	8.215	392.5	17.4	17.9
2	M20 Concrete	M20	28/12/2017	04/01/2018	150.21 X 150.22 X 150.10	22565	8.244	415.2	18.4	
3	M20 Concrete	M20	28/12/2017	04/01/2018	150.22 X 150.29 X 150.23	22577	8.213	401.9	17.8	

Note:

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/01/2018

Lab ID	:	CP-2018-01-06-01
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Venkatala Janatha colony in ward No.01
Agency	:	Sri.Rajanna.N, No:54/1 Venkatala, Yelahanka, Banglore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-12/W.O/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-01-17
Sample ID No	:	2018-01-06-01/02
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	01/01/2018	08/01/2018	150.11 X 150.13 X 150.17	22536	8.231	365.1	16.2	17.0
2	M20 Concrete	M20	01/01/2018	08/01/2018	150.21 X 150.19 X 150.23	22560	8.289	397.1	17.6	
3	M20 Concrete	M20	01/01/2018	08/01/2018	150.22 X 150.24 X 150.18	22569	8.342	388.2	17.2	

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/01/2018

Lab ID	:	**CP-2018-01-06-01**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Venkatala Janatha colony in ward No.01
Agency	:	Sri.Rajanna.N, No:54/1 Venkatala, Yelahanka, Banglore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-12/W.O/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-01-17
Sample ID No	:	2018-01-06-01/04
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	02/01/2018	09/01/2018	150.42 X 150.54 X 150.35	22644	8.312	398.5	17.6	17.7
2	M20 Concrete	M20	02/01/2018	09/01/2018	150.32 X 150.34 X 150.35	22599	8.344	404.5	17.9	
3	M20 Concrete	M20	02/01/2018	09/01/2018	150.32 X 150.44 X 150.33	22614	8.321	395.7	17.5	

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